



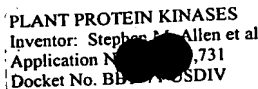
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APPROVED	O.G. FIG. —	
BY	CLASS	SUBCLASS
DRAFTSMAN	800	295

361 420  
SEQ ID NO:10 SPKLRSTALEALVHPF-FDEL RDPNTRL PNGRFLPPLFNFKPHLKNVPADF MVKLVPEH  
SEQ ID NO:12 -----  
SEQ ID NO:14 SPNL RCTVLDALDAPFPLDEF RDPNRLP NGRPIXPTTINSNP-----  
SEQ ID NO:16 SPNL RCTALDACAHSF-FDEL REP NARLP NGRFPFPLFNFKP-ELANASPELINRLVPEH  
SEQ ID NO:21 SPNLSAALDTLVHPF-FDEL RDPNARLP NGRFLPPAFHFKPHLKGVPLEMVAKLVPEH  
SEQ ID NO:22 SPNLRSTALEALVHPF-YDDVRDPNTRL PNGRFLPPLFNFKVNELKGVPAEMLVKLVPPH  
SEQ ID NO:23 SPNLRCAALDCLTHPF-FDEL RDPNARLP TGRFLPPLFNFKPHLKGVPVETLMKLVPEH  
SEQ ID NO:24 SPSLRCTALEACAHPF-FNEL REP NARLP NGRPLPPLFNFKQ-ELGGASME LINRLIPEH

421 434  
SEQ ID NO:10 ARKQCAF---VGW-  
SEQ ID NO:12 -----  
SEQ ID NO:14 -----  
SEQ ID NO:16 VRRQNGPNFAHAGS  
SEQ ID NO:21 ARKQCPW---LGL-  
SEQ ID NO:22 ARKQCAL---FGSS  
SEQ ID NO:23 ARKQCPF---LGL-  
SEQ ID NO:24 VRRQMSTGLQN--S

FIG. 2C



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APPROVED	O.G. FIG. —	
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1	SEQ	ID	NO:	10	60
M	SEQ	ID	NO:	10	ASVGVARSSGLGFQN--GTSSSSDPRLPNELGSMISIRDDKDVE
M	SSEQ	ID	NO:	12	GSXVAPSGLNSSXTSMGA---EKLPDQMHDLKIRDDKEXE
M	SSEQ	ID	NO:	14	MVFEQQQLKEKRDSAKMTSVGAPTS-GLREASGHGAAGVDR-LPEEMNDMKIRDDREME
M	SSEQ	ID	NO:	16	E-----HPAPAPEPMLLDEQPPTAVACE-----KKQQDGE
M	SSEQ	ID	NO:	21	ASVGIAPNP-GARD-----STGVDK-LPEEMNDMKIRDDKEME
M	SSEQ	ID	NO:	22	MASGGVAPAS-GFIDK-NASSVGVEK-LPEEMNDMKIRDDKEME
M	SSEQ	ID	NO:	23	ASVGAPTS-GFREVLGDGEIGVDDILPEEMSDMKIRDDREME
M	SSEQ	ID	NO:	24	ASPLGPGPHALAPPLQLHDGDALKRRPE-----LDSDKEMS

[illegible]

121	SEQ	ID NO:10	IKKVLQDKRYKNRELQTMRLDHPNVVALKHCFEFTTEKDELYLNLVLEYVVPETAH	180
	SEQ	ID NO:12	IKXVL-----	
	SEQ	ID NO:14	IKKVLQDKRYKNRELQTMRLLDHPNVVALKHCFEFTTEKDELYLNLVLEYVVPETVNR	
	SEQ	ID NO:16	IKKVLQDRRYKNRELQLMRSMIHSNVVSLKHCFEFTTSRDELFNLVMEYVPE	
	SEQ	ID NO:21	IKKVLQDRRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVPE	
	SEQ	ID NO:22	IKKVLQDKRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVPE	
	SEQ	ID NO:23	IKKVLQDKRYKNRELQTMRLLDHPNVVSLKHCFEFTTEKDELYLNLVLEYVPE	
	SEQ	ID NO:24	IKKVLQDRRYKNRELQLMRPMDPNVI SLKHCFEFTTSRDELFNLVMEYVPE	

FIG. 2A

APPROVED	O.G. FIG. _____	
BY	CLASS	SUBCLASS
DRAFTSMAN	800	295



PLANT PROTEIN KINASES  
Inventor: Steven Allen et al  
Application No. 09/04,731  
Docket No. BB1171 USDIV

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181 240  
SEQ ID NO:10 HYNKMNQRMP LIYAKLYMYQICRALAYIHNSIGVCHRD IKPQNLLVNPHTHQKLCLDFGS  
SEQ ID NO:12 -----  
SEQ ID NO:14 HYNKFNQRMP LIYVKLYTYQIFRALS YIHRCIGVCHRD IKPQNLLVNPHTHQVKLCDFGS  
SEQ ID NO:16 HYSNANQGMPL IYVKLYMYQLFRGLAYVHTVPGVCHRD VKPQNVLVDPLTHQVKICDFGS  
SEQ ID NO:21 HYNKLNQRMP LIYVKLYTYQIFRALS YIHRCIGVCHRD IKPQNLLVNPHTHQVKLCDFGS  
SEQ ID NO:22 HYNKMNQRMP MIYVKLYSYQICRALAYIHNSIGVCHRD IKPQNLLVNPHTHQVKICDFGS  
SEQ ID NO:23 HYSKLNQRMP MIYVKLYTYQIFRALS YIHRCIGVCHRD IKPQNLLVNPHTHQVKLCDFGS  
SEQ ID NO:24 HYTSSNQRMP IYFYVKLYTYQIFRGLAY IHTVPGVCHRD VKPQNLLVDPLTHQVKLCDFGS

241 300  
SEQ ID NO:10 AKVLVKGE PNISYICSRYYRAPEL IFGATEYTTAIDVGSAGCVLAELLGQPLFPGESGV  
SEQ ID NO:12 -----  
SEQ ID NO:14 AKVLVKGE PNISYICSRYYRAPEL IFGATEYTTAIDVWSVGC VLAELLGQPLFPGESGV  
SEQ ID NO:16 AKVLVPGE PNIAIYICSRYYRAPEL IFGATEYTTSIDWSAGCVLAELLGQPLFPGETAV  
SEQ ID NO:21 AKVLVKGE PNISYICSRYYRAPEL IFGATEYTTAIDVWSAGCVLAELLGQPLFPGESGV  
SEQ ID NO:22 AKVLVKGE PNISYICSRYYRAPEL IFGATEYTTAIDWSAGCVLGELLGQPLFPGESGV  
SEQ ID NO:23 AKVLVKGE PNISYICSRYYRAPEL IFGATEYTTAIDVWSVGC VLAELLGQPLFPGERGV  
SEQ ID NO:24 AKVLVKGE PNISYICSRYYRAPEL IFGATEYTTASIDWSAGCVLAELLGQPLFPGENSV

301 360  
SEQ ID NO:10 DQLVEIIKVLGTP TREEIKCMNP NYTEFKFPQ IKAHPWHKIFHKRMPAEAVDLVSRL LQY  
SEQ ID NO:12 -----  
SEQ ID NO:14 DQLVEIIKVLGTP TREEIKCMNP NYTEFKFPQ IKAHPWHKIFHKRMPPEAVDLVSRL LQY  
SEQ ID NO:16 DQLVEIIKVLGTP TREEIRCMNP NYTEFRFPQ IKAHPWHKIFHKRMPAE AIDLASRL LQY  
SEQ ID NO:21 DQLVHIIKVLGTP TREEIKCMNP NYTEFKFPQ IKAHPWHKIFHKRMPPEAVDLVSRL LQY  
SEQ ID NO:22 DQLVEIIKVLGTP TREEIKCMNP NYTEFKFPQ IKAHPWHKIFHKRMPPEAVDLVSRL LQY  
SEQ ID NO:23 DQLVEIIKVLGTP TREEIKCMNP NYTEFKFPQ IKAHPWHKIFHKRMPAEAVDLVSRL LQY  
SEQ ID NO:24 DQLVEIIKVLGTP TREEIRCMNP NYTDFRFPQ IKAHPWHKV FHKRMPPE AIDLASRL LQY

FIG. 2B

APPROVED BY	O.G. FIG. 1	
DRAFTSMAN	CLASS	SUBCLASS
	800	295



PLANT PROTEIN KINASES  
Inventor: Stephen Allen et al  
Application No. 08/4731  
Docket No. BB177 USDIV

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SEQ ID NO: 2	181	LKRRTENLKDYSILGRRLGQGFQGTTLVCVERAT-----GKEFACKSILKX-LVTDDDDVE	240
SEQ ID NO: 4		FGF-SKNFGAKYELGKEVGRGHFG--HTCSAVVKKGEYKGQTVAVKIIAKAKMTTAAISIE	
SEQ ID NO: 6		FGF-AKQFSAHYELSDXGRGHFG--YTCSAKGGKGAFLGNVAVKVIIPKAKMTTAAIAIE	
SEQ ID NO: 8		-----	
SEQ ID NO: 17		LRRKTENLKDYSILGRRLGQGFQGTTLVCVERAT-----GKELACKSILKRKLGSDDDVE	
SEQ ID NO: 18		FGF-AKNFGAKYDLGKEVGRGHFG--HTCSAVVKKGEHKGHTVAVKIIISKAKMTTAAISIE	
SEQ ID NO: 19		FGF-SKQFASHYIEDGEVGRGHFG--YTCSAKGGKGSILKGQEVAVKVIIPKSKMTTAAIAIE	
	241		300
SEQ ID NO: 2		DVRREIQIMHHLAGHPNVISIRGAYEDAVAV-----	
SEQ ID NO: 4		DVRREVKILRALSGHNNLVKFYDAGEDGLNVYIVMELCEGGELLDRLARGGRYTEEDAK	
SEQ ID NO: 6		DVRREVKILRALTGHNKLVQFYEAIEDD-----	
SEQ ID NO: 8		-----ELDKILARGGKYSEEDAK	
SEQ ID NO: 17		DVRREIQIMHHLAGHPNVISIRGAYEDAVAVHLMELCGGGELFDRIVRRG-HYTERKAA	
SEQ ID NO: 18		DVRREVKILKALSGHDNLVRFYDAGEDALNVYIVMELCEGGELLDRLARGGRYTEEDAK	
SEQ ID NO: 19		DVSREVKMLRALTGHNKLVQFYDAFEDDENNVYIVMELCKGGELLDKILQRGGKYSEDDAK	
	301		360
SEQ ID NO: 2		-----	
SEQ ID NO: 4		AIVVQILSVVAFCHLQGVVHRDLKPENFLFTTRDENAPMKLIDFGLSDFIRPDERLNDIV	
SEQ ID NO: 6		-----	
SEQ ID NO: 8		VVMLQILSVVSFCHLQGVVHRDLKPENFLFSKEENSPLKVIDFGLSDFVVKPDERLNDIV	
SEQ ID NO: 17		ELARVIVGVVEACHSMGMVHRDLKPENFLFADHSEEAALKTIDFGLSIFFRPGQIFTDV	
SEQ ID NO: 18		AIVVQILSVVAFCHLQGVVHRDLKPENFLFTTRDESAPMKLIDFGLSDFIRPDERLNDIV	
SEQ ID NO: 19		KVMVQILSVVAYCHLQGVVHRDLKPENFLFSTKDETSPLKAIDFGLSDYVVKPDERLNDIV	

FIG. 1B





PLANT PROTECT KINASES  
Inventor: Steven Allen et al  
Application No. 09/854,731  
Docket No. BB1171 USDIV

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APPROVED BY	O.G. FIG.	CLASS	SUBCLASS
DRAFTSMAN	800	295	

541	600
SEQ ID NO:2	---
SEQ ID NO:4	VLEFLHALEPLAYRRMDFEEFCAAISPYLEALERWEEIAGTAFQFEQEGNRVISVEE
SEQ ID NO:6	---
SEQ ID NO:8	---
SEQ ID NO:17	IYALMQAADVDNNGTIDYGEFIAATL---HLNKVER-EDHLFAAFQYFDKDGSGYITADE
SEQ ID NO:18	VLEFQHALEPLAYRKMDFFEEFCAAISPYLEALERWEEIAGTAFQHFEEQEGNRVISVEE
SEQ ID NO:19	VFDFVHMISCLQYKKKLDFFEEFCASALSVPYQLEAMETWEQHARRAYELFEKDGNRPMIEE
601	660
SEQ ID NO:2	---
SEQ ID NO:4	LA---QELNLAPTH--YSIVQDWIRKSDGKLNFLGFTKFLHGV TIRGSNTRR----
SEQ ID NO:6	---
SEQ ID NO:8	---
SEQ ID NO:17	LQVACEEFGLGDVQ-LEDLIGEVDQNDGRIDYNEFVAMMQKPTVGGRRRPICRTASAS
SEQ ID NO:18	LA---QELNLAPTH--YSIVQDWIRKSDGKLNFLGFTKFLHGV TIRGSNTRR----
SEQ ID NO:19	LA---SELGLGPSVPVHVVLQDWIRHSDGKLSFLGFVRLHGVSSR--TLQK-----
661	690
SEQ ID NO:2	---
SEQ ID NO:4	---
SEQ ID NO:6	---
SEQ ID NO:8	---
SEQ ID NO:17	GSASGRRSGWPRPLCLWLPCCLRVGVDD
SEQ ID NO:18	---
SEQ ID NO:19	---

FIG. 1D

APPROVED	O.G. FIG. 1		
BY	CLASS	SUBCLASS	
DRAFTSMAN	800	295	



PLANT PROTEIN KINASES  
Inventor: [REDACTED] Allen et al  
Application: 854,731  
Docket No. BB1171 USDIV

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1	60
SEQ ID NO:2	---
SEQ ID NO:4	MGQ-CYKGASGRTADDEGGVTEHQSPPPANGLPSTPPRQQAQAQVGTTPRRRGSKS
SEQ ID NO:6	---
SEQ ID NO:8	---
SEQ ID NO:17	MGNTCVGPSITMNGFFQSVSTAL-WKTPQEGDALPAAANGPGGPAGA-----GSQS
SEQ ID NO:18	MGQ-CYKGARGASSRAD-----HDADPSGAG-SVAPPSPLPANGAPLPATPRRH--KS
SEQ ID NO:19	MGI-CHGKPVQQSKS-----LPVSGETNEAPTNSQPPAK-----
61	120
SEQ ID NO:2	---
SEQ ID NO:4	GSTTPGHQ-----TPGVA-WPSYPGSGASPLPAGVSPSPA-----RSTPRFFKRPFPF
SEQ ID NO:6	-----NPSXLPSWFKNSPSSNSNPSSXPLXIFKXPFPP
SEQ ID NO:8	---
SEQ ID NO:17	ALPKPASDVHHVAVQSEAPEPVKIAAYHSEPAVVRSEAPEPVKIAASHSE-----PA
SEQ ID NO:18	GSTTPVHH-HQAATPGAAWSPYPAGGASPLPAGVSPSPA-----RSTPRFFKRPFPF
SEQ ID NO:19	-----SSGFFPYSPSPVPSLFKSSPSVSSSVSTPLRIFKRPFPF
121	180
SEQ ID NO:2	-----PPVKRVSSAGLLVGSV
SEQ ID NO:4	PSPAKHIKATLAKRLGGGKPKGTIPEEGVGAGGGGG-----GAADGAETERPLDKT
SEQ ID NO:6	PSPAKHIRALLARXHGSVKPNEASIPE-----ASXCELGLDKS
SEQ ID NO:8	---
SEQ ID NO:17	PMAAKP-----GGAANASPSPPRPRPQVKRVSSAGLLLSV
SEQ ID NO:18	PSPAKHIKATLAKRLGGGKPKGTIPEEGGAGAGAGAGAAVGAADSAAEDRPLDKT
SEQ ID NO:19	PSPAKHIRAFLARRYGSVKPNEVSIPE-----GKECEIGLDKS

FIG. 1A